Engineer: Bruce Page	Date: 8/23/04	Raytheon					
Drawn: Bruce Page	Date: 8/23/04	JPS Communications 5800 Departure Drive, Raleigh, NC 27616					
Approved: CTS	Date: 8/23/04	Title: ACU RADIO APPLICATION NOTES					
Issued/ Revised	Date: 9/8/04	Size:	Dwg. #: 5961-271282-APP	Rev:	Sheet:	Of	1

APPLIES TO: EF Johnson Viking CM/CK Portable Radio

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING: None required.

RADIO CONTROLS:

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio. Full volume position is required.

CABLING:

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable JPS P/N 5961-291282 (5961-271282 + 5961-261002-00) ACU-T Interface Cable JPS P/N 5961-281282 (5961-271282 + 5961-281013-00)

TRP-1000 Shelf Interface Cable JPS P/N 5961-271282

Radio RF Connector Type

DSP-1 JUMPERS:

JP1 Low Impedance *
JP2 Balanced *

DSP PROGRAMMING: (See Notes)

RX Level -4dBm TX Level 6* 0dBm* Squelch Type VOX* **COR Polarity** Active Low* High Frequency Equalizer Flat* 4* 2* RX Audio Delay 100 ms* TX Audio Delay (Radio Type) 0* No Delay* Noise Reduction Value 0* Off* 1* VOX/VMR Threshold Med1* VOX/VMR Hang Time 3* 775 ms* COR Inhibit After PTT 1* 100 ms* All Others As needed

(* Indicates Default Value)

NOTES:

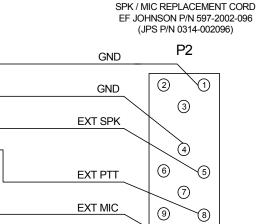
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PURCHASED PART

C1 22µF

R3

∕VV~ 10



CONNECTOR PIN VIEW

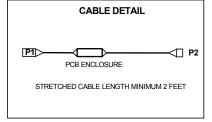
(10)

13)

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USED WITH: EF JOHNSON VIKING CM/CK PORTABLE

USE MOLDED CABLE

(JPS P/N 5961-261003-00)

P1

2

CPC FEMALE

REAR VIEW OF CONNECTOR

ANA. GND

GND

TXB

PTT

RXA

RXB

TXA

COMPONENT PCB (JPS P/N 5961-271000)

R3 JPS P/N 1820-100000 C1 JPS P/N 0321-220250 JU2

JU4 JU5 JU6 NOTES: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

FOR DETAILED CABLE ASSEMBLY INSTRUCTIONS SEE 5961-271001-CBL.

Designed By: RBP		Raytheon JPS Communications Raleigh, NC USA					
Drawn By:	RBP	Title CABLE	Title CABLE, CPC TO EF JOHNSON VIKING CM/CK HANDHELDS				
Checked By:	CTS	Size A	Document Number 5961-271282		Rev A1		
		Issued Date		AUGUST	23, 2004	Sheet 1	_of_1_

